



1 **In the Specification:**

2 Please replace the entire "Brief Description of the Drawings" section with
3 the following, wherein changes begin at Fig. 10.

4

5 **BRIEF DESCRIPTION OF THE DRAWINGS**

6 Fig. 1 shows a relational database computer system.

7 Fig. 2 is a flow diagram of a method utilizing a partial pre-aggregation
8 operation.

9 Fig. 3 is a flow diagram of a partial pre-aggregation operation.

10 Fig. 4 is an illustration of a sales table.

11 Fig. 5 is an illustration of a customer table.

12 Fig. 6a is an illustration showing a first group of aggregation records output
13 to a join operator as a result of applying partial pre-aggregation to the sales table.

14 Fig. 6b is an illustration showing a second group of aggregation records output
15 to a join operator as a result of applying partial pre-aggregation to the sales
16 table.

17 Fig. 7 is an illustration showing a result of applying a join operation to the
18 result of the partial pre-aggregation and the customer table.

19 Fig. 8 is an illustration showing a result of aggregating the result of the join
20 operation.

21 Fig. 9 is a flow diagram of a method utilizing a single record store for a
22 partial pre-aggregation operation and a join operation.

23 **Fig. 10 shows the records that result from aggregating the groups of records**
24 **output from the partial pre-aggregation/join procedure.**

1 Fig. 10a is an illustration showing a first group of records input to a record
2 store.

3 Fig. 10b is an illustration showing records resulting from performing a
4 partial pre-aggregation on the record store.

5 Fig. 10c is an illustration showing records resulting from performing a join
6 on the aggregated record store.

7 Fig. 11a is an illustration showing a second group of records input to a
8 record store.

9 Fig. 11b is an illustration showing records resulting from performing a
10 partial pre-aggregation on the record store.

11 Fig. 11c is an illustration showing records resulting from performing a join
12 on the aggregated record store.

13 Fig. 12 is an illustration showing records resulting from performing an
14 aggregation on the records output from the join operations.

1 Please replace paragraph beginning on page 25, line 18, with the following
2 rewritten paragraph. This is the last paragraph before the word "Conclusion" at the top of
3 page 26.

4
5 --Note that the final records output from the query are identical in Fig. 8
6 and in ~~Fig. 12~~ Fig. 10. But the implementation that utilized a combination of a
7 pre-aggregation and a join required less memory and processing to complete than
8 the first described implementation. The memory savings are on the order of one-
9 half.--

10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25